

**TRANSFORMATION AND PROCESSING OF WEB FORM DOCUMENTS
AND DATA FOR SMALL FOOTPRINT DEVICES**

ABSTRACT OF THE DISCLOSURE

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A content transformer transforms computer network content, such as a Web page, so that the content can be displayed on any type of user device that is communicatively coupled to a computer network. The content transformer functions as a surrogate server between any network content server and the user device, so that all content that is received by the user device first passes through the content transformer. The content transformer transforms Web form documents that are served by the content server so the documents are in a format that is suited for the user device. The content transformer divides a form document into a series of subdocuments that are optimized for the display screen and memory constraints of the user device. The content transformer also stores any user-provided data from the form document in a data storage location that is local to the content transformer. The content transformer provides the data to the content server when it is determined that the user has requested submittal of the data to the content server.

169010 v01.SD (3M#Q011.DOC)(36584.6050)